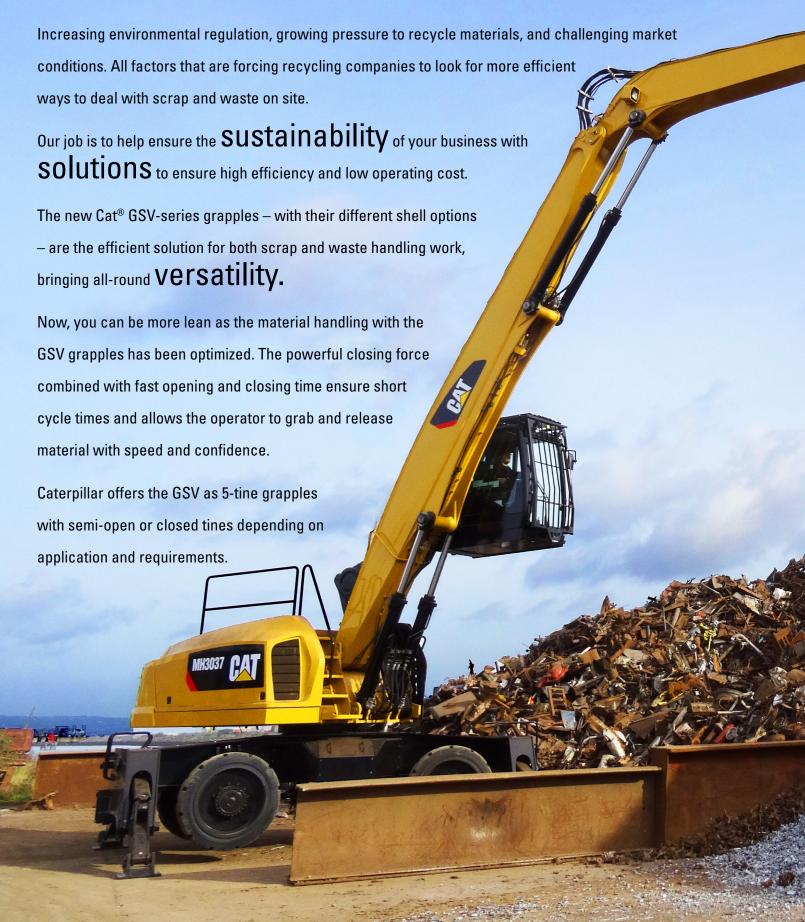




## **Efficient Scrap and Waste Recycling**

Your role of recycling is of paramount importance for the economy and society. The value of scrap and waste is found in the work you do to transform it into a valuable commodity.





## More tons per hour

Scrap is a valuable commodity. To maximize your profitability, you need productive equipment that allows you to manage your costs.

And you have to satisfy your customers' requirements, whether you reach those customers by truck, rail or water.

At the end of the scrap process, Cat equipment is ready to help you fulfill customer orders. Quickly and efficiently.

The GSV-series Orange Peel grapples deliver high productivity for a great return on investment. Their powerful grip combined with fast opening/closing times give you really short cycle times. Add to this the wide opening of the tines and it all translates into more tons per hour.

### **Built to last**

- Heavy-duty bi-directional rotation system
- Sturdy housing with high quality bushings and solid hinge point construction
- Reinforced tines made of wear resistant steal
- Rotator protected against overcharge due to integrated pressure relief valve
- Mechanical stops prevent cylinder damage and reduces stress when opening and closing
- Heavy duty cylinder guard and easy to remove protection guard\*

### \* Option



## **Maintenance friendly**

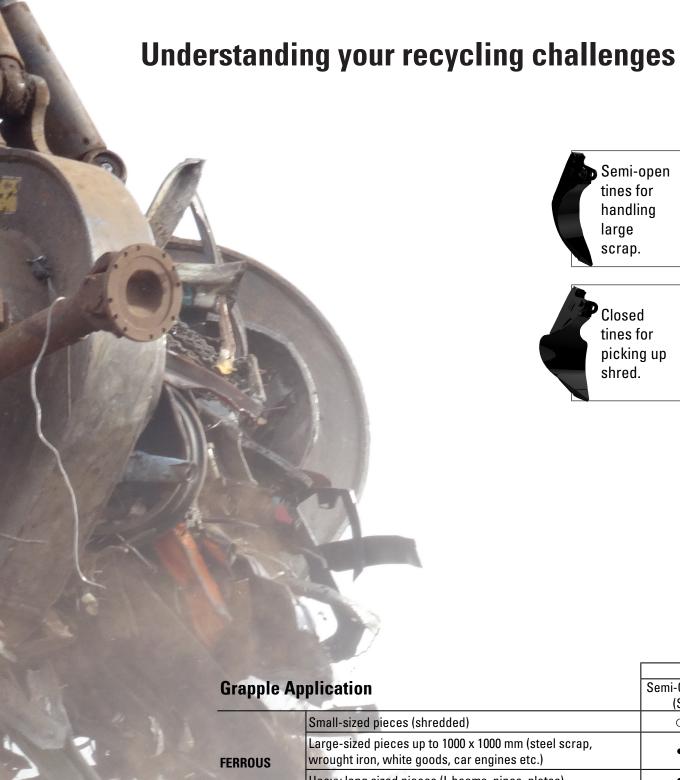
- Easily-accessible lubrication points simplify routine service
- Replaceable abrasion-resistant weld-on tips
- Efficient house routing for ease of maintenance and minimizing damage

















		5 Tines		
Grapple Application		Semi-Closed	Closed	
		(S)	(C)	
FERROUS	Small-sized pieces (shredded)	0	•	
	Large-sized pieces up to 1000 x 1000 mm (steel scrap, wrought iron, white goods, car engines etc.)	•	×	
	Heavy long sized pieces (I-beams, pipes, plates)	•	×	
	Car bodies	•	×	
NON-FERROUS	Small-sized pieces (beverage cans, electric devices, e-scrap)	×	•	
	Large sized pieces (car radiators, batteries)	•	0	
	Wires and cables (copper, lead)	•	0	
OTHER	Waste, plastics, carton, tyres leather, textile, rubber	•	0	
	Rocks, concrete blocks	•	×	

Recommended	•
Possible, but not best option	0
Not Recommended	×

# YOU'VE GOT A JOB TO DO, WE'VE GOT THE TOOL TO DO IT

The GSV-series grapples are designed for heavy duty scrap and waste environments so they're built to last, protecting your investment. Made of high grade, impact resistant steel care has been taken to strengthen or protect vulnerable areas such as the hydraulic components. For added durability we've included high quality bushings with lubrication grooves, hardened pins and internal dust seals. A lifting eye is standard for mounting a magnet.

1 ROTATION SYSTEM – The rotation motor drives a gear on a slew bearing to move the grapple in either direction through the full 360°, for easy positioning. The high torque motor ensures a long service life.

2 TINES – The solidly constructed inner tines and easy to replace casted tips are built with high grade steel – formulated to resist abrasion and resist metal-on-metal wear. Semi-closed and closed tines have been designed to handle virtually any scrap or recycling iob efficiently.

3 CYLINDER - High quality cylinders with cushioned opening movement of the tines are installed to avoid premature wear. And provide hydraulic matching up to 350 bar. The heavy duty abrasion resistant tine stops prevent the cylinders from over extending.

HINGE POINTS – Heavy duty hardened pins and high quality bushings are used to absorb and minimize distortion.

5 MOUNTING BRACKET AID— All mounting brackets feature a solid pin to keep the bracket in the up-right position for ease of installation.

6 FRAME STRUCTURE - The housing features a new modern and rigid design for a long service life. The hydraulic circuit is well protected into the structure and manufactured to resist severe working conditions.

MAINTENANCE – Easy to replace guarding and the direct house routing makes maintenance operations very easy. Uniquely, the dust seals are kept on the inside so there is optimal protection against damage and less grease used. Grease points at ground level make routine service simple.





# **Grapple / Machine Compatibility**

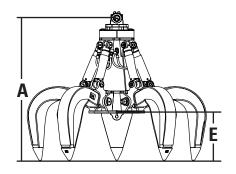
### Orange Peel Grapples Matching Guide

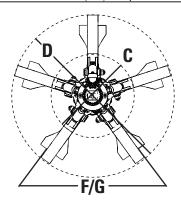
	Hydraulic Excavators	Wheeled Excavators
GSV525	325D MH, 330D MH	M320F

This matching guide is for indictaion only. Please contact your dealer for more information.

# **Specifications**

_	GSV525								
Part Number, Semi Closed tine	467-0352		467-0353		458-0776				
Part Number, Closed tine			473-7065		473-7067		473-7068		
Industry Capacity Class	L	$(yd^3)$	750	(1.0)	950	(1.25)	1,150	(1.5)	
Operating Weight, Semi-closed tine	kg	(lb)	1,763	(3,879)	1,821	(3,879)	1,875	(3,879)	
Operating Weight, Closed tine	kg	(lb)	1,982	(4,360)	2,060	(3,879)	2,132	(3,879)	
Maximum Lift Capacity	kg	(lb)	10,000	(22,000)	10,000	(22,000)	10,000	(22,000)	
Dimensions									
A Height, tines closed	mm	(in)	2,226	(87.6)	2,324	(91.5)	2,416	(95.1)	
<b>B</b> Height, tines open	mm	(in)	2,029	(79.9)	2,078	(81.8)	2,125	(83.7)	
<b>C</b> Diameter, tines closed	mm	(in)	1,668	(65.7)	1,734	(68.3)	1,790	(70.5)	
<b>D</b> Diameter, tines open	mm	(in)	2,411	(94.9)	2,582	(101.7)	2,742	(108.0)	
<b>E</b> Ground clearance, tines open	mm	(in)	641	(25.2)	690	(27.2)	736	(29.0)	
<b>F/G</b> Overall width	mm	(in)	2,226	(87.6)	2,381	(93.7)	2,526	(99.4)	
Pin diameter	mm	(in)	80	(3.1)	80	(3.1)	80	(3.1)	
Width of crosshead	mm	(in)	150	(5.9)	150	(5.9)	150	(5.9)	
Hydraulic open/close									
Maximum pressure	bar	(psi)	350	(5,076)	350	(5,076)	350	(5,076)	
Optimum flow	L/min	(gpm)	200	(52.8)	200	(52.8)	200	(52.8)	
Hydraulic rotation									
Maximum pressure	bar	(psi)	220	(3,191)	220	(3,191)	220	(3,191)	
Optimum pressure	bar	(psi)	160	(2,321)	160	(2,321)	160	(2,321)	
Optimum flow	L/min	(gpm)	20	(5.3)	20	(5.3)	20	(5.3)	





#### GEHQ9212-01 (01-17)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com** 

©2017 Caterpillar All Rights Reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, BUILT FOR IT, their respective logos, "Caterpillar Yellow," and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

